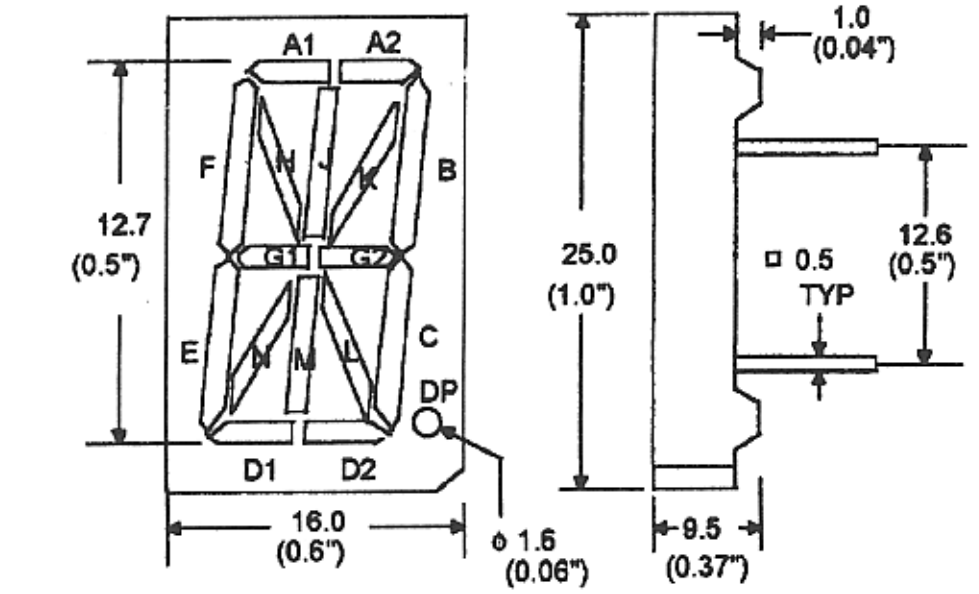
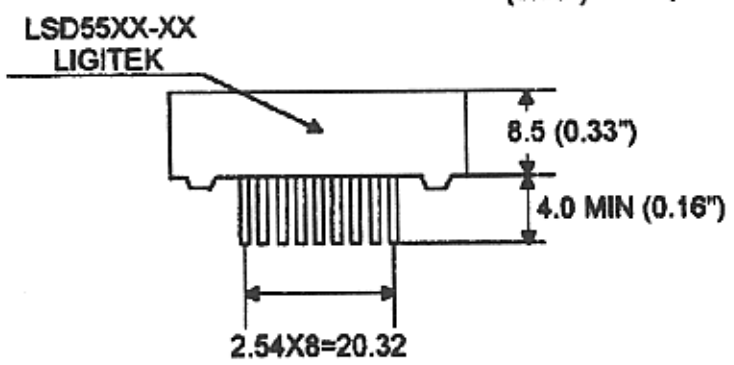
140901

LIGITEK

SINGLE DIGIT LED DISPLAY (0.5Inch) LSD555X/6X series

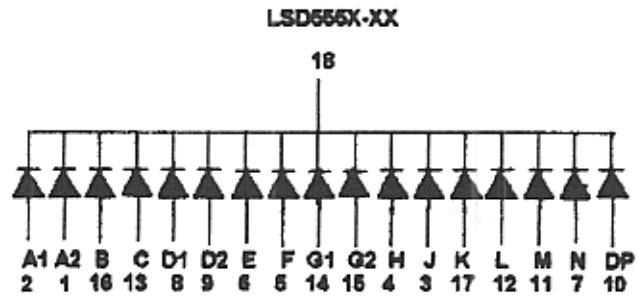
PACKAGE DIMENSION

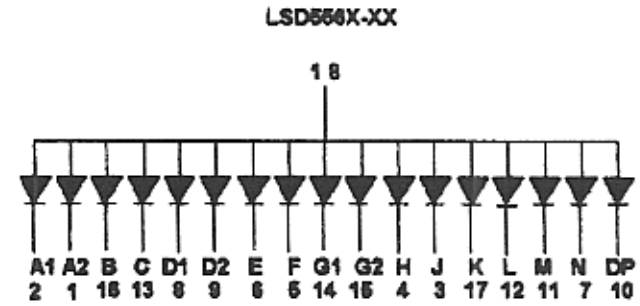




NOTE: All Dimension Are In Millimeters And (Inch)
Tolerance Is ±0.25(0.01") Unless Otherwise Noted

INTERNAL CIRCUIT DIAGRAM





- **Connection To Electrical Schematic**

Electrical Connection

PIN NO.	LSD555X-XX	PIN NO.	LSD556X-XX
1	Anode A2	1	Cathode A2
2	Anode A1	2	Cathode A1
3	Anode J	3	Cathode J
4	Anode H	4	Cathode H
5	Anode F	5	Cathode F
6	Anode E	6	Cathode E
7	Anode N	7	Cathode N
8	Anode D1	8	Cathode D1
9	Anode D2	9	Cathode D2
10	Anode DP	10	Cathode DP
11	Anode M	11	Cathode M
12	Anode L	12	Cathode L
13	Anode C	13	Cathode C
14	Anode G1	14	Cathode G1
15	Anode G2	15	Cathode G2
16	Anode B	16	Cathode B
17	Anode K	17	Cathode K

• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λP (nm)	Δλ (nm)	Electrical					IV-M
						Vf(v)			Iv(mcd)		
	material	emitted				Min	Typ.	Max	Min	Typ.	
LSD5555-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	2.0	3.4	2:1
LSD5551-XX	GaP	Red		697	90	1.7	2.1	2.8	0.5	0.9	2:1
LSD5552-XX	GaP	Green		565	30	1.7	2.1	2.8	1.6	2.6	2:1
LSD5553-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.4	2.4	2:1
LSD5554-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.6	2.6	2:1
LSD5565-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.4	2.0	3.4	2:1
LSD5561-XX	GaP	Red		697	90	1.7	2.1	2.8	0.5	0.9	2:1
LSD5562-XX	GaP	Green		565	30	1.7	2.1	2.8	1.6	2.6	2:1
LSD5563-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.4	2.4	2:1
LSD5564-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.6	2.6	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red		Green	Yellow	Orange	Unit	Remark
Forward Current Per Chip	SR	H	G	Y	E		
	40	15	30	20	30	mA	
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200	60	120	80	120	mA	
Power Dissipation Per Chip	110	45	100	85	100	mW	
Derating Linear From 25°C Per Chip	0.45	0.25	0.45	0.45	0.45	mA/ °C	
Reverse Current Per Any Chip	10		10	10	10	μA	
Operating Temperature	-25°C TO +85°C						
Storage Temperature	-25°C TO +85°C						

Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260°C

• Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=20mA
Luminous Intensity Per Chip	Iv	mcd	If=10mA
Peak Emission Wavelength	λP	nm	If=20mA